

TACGCCAAGC TCGAAATTAA CCCTCACTAA AGGGAACAAA AGCTGGAGCT
 CCACCGCGGT GGC GGCCGCT CTAGAACTAG TGGATCCCC GGGCTGCAGG
 AATTCGAATT CTCATAACCT ATGACTAGGA CGGGAAGAGG AAGCACTGCC
 TTTACTTCAG TGGGAATCTC GGCCTCAGCC TGCAAGCCAA GTGTTACAG
 TGAGAAAAGC AAGAGAATAA GCTAATACTC CTGTCCTGAA CAAGGCAGCG
 GCTCCTTGGT AAAGCTACTC CTTGATCGAT CCTTTGCACC GGATTGTTCA
 AAGTGGACCC CAGGGGAGAA GTCGGAGCAA AGAACTTACC ACCAAGCAGT
 CCAAGAGGCC CAGAAGCAAA CCTGGAGGTG AGACCCAAAG AAAGCTGGAA
 CCATGCTGAC TTTGTACACT GTGAGGACAC AGAGTCTGTT CCTGGAAAGC
 CCAGTGTCAG CGCAGATGAG GAAGTCGGAG GTCCCCAAAT CTGCCGTGTA
 TGTGGGGACA AGGCCACTGG CTATCACTTC AATGTCATGA CATGTGAAGG
 ATGCAAGGGC TTTTTCAGGA GGGCCATGAA ACGCAACGCC CGGCTGAGGT
 GCCCCTTCCG GAAGGGCGCC TGCGAGATCA CCCGGAAGAC CCGGCGACAG
 TGCCAGGCCT GCCGCCTGCG CAAGTGCCTG GAGAGCGGCA TGAAGAAGGA
 GATGATCATG TCCGACGAGG CCGTGGAGGA GAGGCGGGCC TTGATCAAGC
 GGAAGAAAAG TGAACGGACA GGGACTCAGC CACTGGGAGT GCAGGGGCTG
 ACAGAGGAGC AGCGGATGAT GATCAGGGAG CTGATGGACG CTCAGATGAA
 AACCTTTGAC ACTACCTTCT CCCATTTCAA GAATTTCCGG CTGCCAGGGG
 TGCTTAGCAG TGGCTGCGAG TTGCCAGAGT CTCTGCAGGC CCCATCGAGG
 GAAGAAGCTG CCAAGTGGAG CCAGGTCCGG AAAGATCTGT GCTCTTTGAA
 GGTCTCTCTG CAGCTGCGGG GGGAGGATGG CAGTGTCTGG AACTACAAAC
 CCCAGCCGA CAGTGGCGGG AAAGAGATCT TCTCCCTGCT GCCCCACATG
 GCTGACATGT CAACCTACAT GTTCAAAGGC ATCATCAGCT TTGCCAAAGT
 CATCTCCTAC TTCAGGGACT TGCCCATCGA GGACCAGATC TCCCTGCTGA

FIG.1A

AGGGGGCCGC TTTCGAGCTG TGTCAACTGA GATTCAACAC AGTGTTCAAC
 GCGGAGACTG GAACCTGGGA GTGTGGCCGG CTGTCCTACT GCTTGGAAGA
 CACTGCAGGT GGCTTCCAGC AACTTCTACT GGAGCCCATG CTGAAATTCC
 ACTACATGCT GAAGAAGCTG CAGCTGCATG AGGAGGAGTA TGTGCTGATG
 CAGGCCATCT CCCTCTTCTC CCCAGACCGC CCAGGTGTGC TGCAGCACCG
 CGTGGTGGAC CAGCTGCAGG AGCAATTGCG CATTACTCTG AAGTCCTACA
 TTGAATGCAA TCGGCCCCAG CCTGCTCATA GGTTCCTGTT CCTGAAGATC
 ATGGCTATGC TCACCGAGCT CCGCAGCATC AATGCTCAGC ACACCCAGCG
 GCTGCTGCGC ATCCAGGACA TACACCCCTT TGCTACGCCC CTCATGCAGG
 AGTTGTTCCG CATCACAGGT AGCTGAGCGG CTGCCCTTGG GTGACACCTC
 CGAGAGGCAG CCAGACCCAG AGCCCTCTGA GCCGCCACTC CCGGGCCAAG
 ACAGATGGAC ACTGCCAAGA GCCGACAATG CCCTGCTGGC CTGTCTCCCT
 AGGGAATTCC TGCTATGACA GCTGGCTAGC ATTCCTCAGG AAGGACATGG
 GTGCCCCCA CCCCCAGTTC AGTCTGTAGG GAGTGAAGCC ACAGATTCTT
 ACGTGGAGAG TGCACTGACC TGTAGGTCAG GACCATCAGA GAGGCAAGGT
 TGCCCTTTCC TTTTAAAAGG CCCTGTGGTC TGGGGAGAAA TCCCTCAGAT
 CCCACTAAAG TGTCAGGTG TGAAGGGAC CAAGCGACCA AGGATAGGCC
 ATCTGGGGTC TATGCCACA TACCCACGTT TGTTGCTTC CTGAGTCTTT
 TCATTGCTAC CTCTAATAGT CCTGTCTCCC ACTTCCCACT CGTTCCCCTC
 CTCTTCCGAG CTGCTTTGTG GGCTCCAGGC CTGTACTCAT CGGCAGGTGC
 ATGAGTATCT GTGGGAGTCC TCTAGAGAGA TGAGAAGCCA GGAGGCCTGC
 ACCAAATGTC AGAAGCTTGG CATGACCTCA TTCCGGCCAC ATCATTCTGT
 GTCTCTGCAT CCATTTGAAC ACATTATTAA GCACCGATAA TAGGTAGCCT

FIG.1B

GCTGTGGGGT ATACAGCATT GACTCAGATA TAGATCCTGA GCTCACAGAG
 TTTATAGTTA AAAAAACAAA CAGAAACACA AACCAATTTGG ATCAAAAGGA
 GAAATGATAA GTGACAAAAG CAGCACAAGG AATTTCCCTG TGTGGATGCT
 GAGCTGTGAT GGCGGGCACT GGGTACCCAA GTGAAGGTTC CCGAGGACAT
 GAGTCTGTAG GAGCAAGGGC ACAAAC TGCA GCTGTGAGTG CGTGTGTGTG
 ATTTGGTGTA GGTAGGTCTG TTTGCCACTT GATGGGGCCT GGGTTTGTTT
 CTGGGGCTGG AATGCTGGGT ATGCTCTGTG ACAAGGCTAC GCTGACAATC
 AGTTAAACAC ACCGGAGAAG AACCATTTAC ATGCACCTTA TATTTCTGTG
 TACACATCTA TTCTCAAAGC TAAAGGGTAT GAAAGTGCCT GCCTTGTTTA
 TAGCCACTTG TGAGTAAAAA TTTTTTTGCA TTTTCACAAA TTATACTTTA
 TATAAGGCAT TCCACACCTA AGAACTAGTT TTGGGAAATG TAGCCCTGGG
 TTTAATGTCA AATCAAGGCA AAAGGAATTA AATAATGTAC TTTTGGCTAG
 AGGGGTAAAC TTTTTTGCC TTTTCTGGG GAAATAATG TGGGGGTGTG
 GGAATTCGAA TTCGATATCA AGCTTATCGA TACCGTCGAC CTCGAGGGGG
 GGCCCGGTAC CCAATTCGCC CTATAGTGAG TCGTATTACA ATT (SEQ ID NO:1)

961 CCAAGTGGAGCCAGGTCCGGAAGATCTGTGCTCTTTGAAGGTCTCTCTGCAGCTGCGGG 1020
K W S Q V R K D L C S L K V S L Q L R G

1021 GGGAGGATGGCAGTGTCTGGAAC TACAAACCCCGAGCCGACAGTGGCGGGAAAGAGATCT 1080
E D G S V W N Y K P P A D S G G K E I F

1081 TCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGCT 1140
S L L P H M A D M S T Y M F K G I I S F

1141 TTGCCAAAGTCATCTCCTACTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCTGCTGA 1200
A K V I S Y F R D L P I E D Q I S L L K

1201 AGGGGGCCGCTTTTCGAGCTGTGTCAACTGAGATTCAACACAGTGTTCACGCGGAGACTG 1260
G A A F E L C Q L R F N T V F N A E T G

1261 GAACCTGGGAGTGTGGCCGGCTGTCCTACTGCTTGAAGACACTGCAGGTGGCTTCCAGC 1320
T W E C G R L S Y C L E D T A G G F Q Q

1321 AACTTCTACTGGAGCCCATGCTGAAATTCCTACTACATGCTGAAGAAGCTGCAGCTGCATG 1380
L L L E P M L K F H Y M L K K L Q L H E

1381 AGGAGGAGTATGTGCTGATGCAGGCCATCTCCCTCTTCTCCCCAGACCGCCAGGTGTGC 1440
E E Y V L M Q A I S L F S P D R P G V L

1441 TGCAGCACCGCGTGGTGGACCAGCTGCAGGAGCAATTCGCCATTACTCTGAAGTCCTACA 1500
Q H R V V D Q L Q E Q F A I T L K S Y I

1501 TTGAATGCAATCGGCCCCAGCCTGCTCATAGTTCTTGTTCCTGAAGATCATGGCTATGC 1560
E C N R P Q P A H R F L F L K I M A M L

1561 TCACCGAGCTCCGCAGCATCAATGCTCAGCACACCCAGCGGCTGCTGCGCATCCAGGACA 1620
T E L R S I N A Q H T Q R L L R I Q D I

1621 TACACCCCTTTGCTACGCCCCTCATGCAGGAGTTGTTGCGCATCACAGGTAGCTGAGCGG 1680
H P F A T P L M Q E L F G I T G S (SEQ ID NO:2)

1681 CTGCCCTTGGGTGACACCTCCGAGAGGCAGCCAGACCCAGAGCCCTCTGAGCCGCCACTC 1740

1741 CCGGGCCAAGACAGATGGACACTGCCAAGAGCCGACAATGCCCTGCTGGCCTGTCTCCCT 1800

FIG.2B

1801 AGGGAATTCCTGCTATGACAGCTGGCTAGCATTCTCAGGAAGGACATGGGTGCCCCCA 1860
1861 CCCCCAGTTCAGTCTGTAGGGAGTGAAGCCACAGATTCTTACGTGGAGAGTGAAGTACC 1920
1921 TGTAGGTCAGGACCATCAGAGAGGCAAGGTTGCCCTTTCTTTTAAAAGGCCCTGTGGTC 1980
1981 TGGGGAGAAATCCCTCAGATCCCACTAAAGTGTCAAGGTGTGGAAGGGACCAAGCGACCA 2040
2041 AGGATAGGCCATCTGGGGTCTATGCCACATACCCACGTTTGTTCGCTTCCTGAGTCTTT 2100
2101 TCATTGCTACCTCTAATAGTCCTGTCTCCCACTTCCCACTCGTTCCCTCCTCTTCCGAG 2160
2161 CTGCTTTGTGGGCTCCAGGCCTGTAATCATCGGCAGGTGCATGAGTATCTGTGGGAGTCC 2220
2221 TCTAGAGAGATGAGAAGCCAGGAGGCCTGCACCAAATGTCAGAAGCTTGGCATGACCTCA 2280
2281 TTCCGGCCACATCATTCTGTGTCTCTGCATCCATTTGAACACATTATTAAGCACCGATAA 2340
2341 TAGGTAGCCTGCTGTGGGGTATACAGCATTGACTCAGATATAGATCCTGAGCTCACAGAG 2400
2401 TTTATAGTTAAAAAACAAACAGAAACACAAACAATTTGGATCAAAGGAGAAATGATAA 2460
2461 GTGACAAAAGCAGCACAAAGGAATTTCCCTGTGTGGATGCTGAGCTGTGATGGCGGGCACT 2520
2521 GGGTACCCAAGTGAAGGTTCCCGAGGACATGAGTCTGTAGGAGCAAGGGCACAACTGCA 2580
2581 GCTGTGAGTGCGTGTGTGTGATTTGGTGTAGGTAGGTCTGTTTGCCACTTGATGGGGCCT 2640
2641 GGGTTTGTTCCTGGGGCTGGAATGCTGGGTATGCTCTGTGACAAGGCTACGCTGACAATC 2700
2701 AGTTAAACACACCGGAGAAGAACCATTACATGCACCTTATATTTCTGTGTACACATCTA 2760
2761 TTCTCAAAGCTAAAGGGTATGAAAGTGCCTGCCTTGTTTATAGCCACTTGAGTAAAAA 2820
2821 TTTTTTGCATTTTACAAATTATACTTTATATAAGGCATTCCACACCTAAGAACTAGTT 2880
2881 TTGGGAAATGTAGCCCTGGGTTTAATGTCAAATCAAGGCAAAAGGAATTAATAATGTAC 2940
2941 TTTTGGCTAGAGGGGTAACTTTTTTGGCCTTTTTCTGGGGAAAATAATGTGGGGGTGTG 3000
3001 GGAATTCGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC 3060
3061 CCAATTCGCCCTATAGTGAGTCGTATTACAATT (SEQ ID NO:1) 3093

FIG.2C

SILCTGLFKV DPRGEVGAKN LPPSSPRGPE ANLEVRPKES WNHADFVHCE
DTESVPGKPS VNADEEVGGP QICRVCGDKA TGYHFNVMTC EGCKGEFERRA
MKRNARLRCP FRKGACEITR KTRROCOACR LRKCLESGMK KEMIMSDEAV
EERRALIKRK KSERTGTQPL GVQGLTEEQR MMIRELMDAQ MKTFDTTFSH
FKNFRLPGVL SSGCELPESL QAPSREEAAK WSQVRKDLCS LKVSLLQLRGE
DGSVWNYKPP ADGGGKEIFS LLPHMADMST YMFKGIISFA KVISYFRDLP
IEDQISLLKG AAFELCQLRF NTVFNAETGT WECGRLSYCL EDTAGGFQQL
LLEPMLKFHY MLKKLQLHEE EYVLMQAISL FSPDRPGVLQ HRVVDQLQEQ
FAITLKSYIE CNRPQPAHRF LFLKIMAMLT ELRSINAQHT QRLLRIODIH
PFATPLMQEL FGITGS (SEQ ID NO:2)

FIG.3

1 TCCATCCTAA TACGACTCAC TATAGGGCTC GAGCGGCCGC CCGGGCAGGT
51 CTTTTGGCCT GCTGGGTTAG TGCTGGCAGC CCCCTGAGGC CAAGGACAGC
101 AGCATGACAG TCACCAGGAC TCACCACITC AAGGAGGGGT CCCTCAGAGC
151 ACCTGCCATA CCCCTGCACA GTGCTGCGGC TGAGTTGGCT TCAAACCATC
201 CAAGAGGCCC AGAAGCAAAC CTGGAGGTGA GACCCAAAGA AAGCTGGAAC
251 CATGCTGACT TTGTACACTG TGAGGACACA GAGTCTGTTC CTGGAAGCC
301 CAGTGTC AAC GCAGATGAGG AAGTCGGAGG TCCCCAAATC TGCCGTGTAT
351 GTGGGGACAA GGCCACTGGC TATCACTTCA ATGTCATGAC ATGTGAAGGA
401 TGCAAGGGCT TTTTCAGGAG GGCCATGAAA CGCAACGCCC GGCTGAGGTG
451 CCCCTTCCGG AAGGGCGCCT GCGAGATCAC CCGGAAGACC CGGCGACAGT
501 GCCAGGCCTG CCGCCTGCGC AAGTGCCTGG AGAGCGGCAT GAAGAAGGAG
551 ATGATCATGT CCGACGAGGC CGTGGAGGAG AGGCGGGCCT TGATCAAGCG
601 GAAGAAAAGT GAACGGACAG GGA CTCAGCC ACTGGGAGTG CAGGGGCTGA
651 CAGAGGAGCA GCGGATGATG ATCAGGGAGC TGATGGACGC TCAGATGAAA
701 ACCTTTGACA CTACCTTCTC CCATTTCAAG AATTTCCGGC TGCCAGGGGT
751 GCTTAGCAGT GGCTGCGAGT TGCCAGAGTC TCTGCAGGCC CCATCGAGGG
801 AAGAAGCTGC CAAGTGGAGC CAGGTCCGGA AAGATCTGTG CTCTTTGAAG
851 GTCTCTCTGC AGCTGCGGGG GGAGGATGGC AGTGTCTGGA ACTACAAACC
901 CCCAGCCGAC AGTGGCGGGA AAGAGATCTT CTCCCTGCTG CCCACATGG
951 CTGACATGTC AACCTACATG TTCAAAGGCA TCATCAGCTT TGCCAAAGTC
1001 ATCTCCTACT TCAGGGACTT GCCCATCGAG GACCAGATCT CCCTGCTGAA
1051 GGGGGCCGCT TTCGAGCTGT GTCAACTGAG ATTCAACACA GTGTTCAACG

1101 CGGAGACTGG AACCTGGGAG TGTGGCCGGC TGTCTACTG CTTGGAAGAC
 1151 ACTGCAGGTG GCTTCCAGCA ACTTCTACTG GAGCCCATGC TGAAATTCCA
 1201 CTACATGCTG AAGAAGCTGC AGCTGCATGA GGAGGAGTAT GTGCTGATGC
 1251 AGGCCATCTC CCTCTTCTCC CCAGACCGCC CAGGTGTGCT GCAGCACCGC
 1301 GTGGTGGACC AGCTGCAGGA GCAATTCGCC ATTACTCTGA AGTCCTACAT
 1351 TGAATGCAAT CGGCCCCAGC CTGCTCATAG GTTCTTGTTT CTGAAGATCA
 1401 TGGCTATGCT CACCGAGCTC CGCAGCATCA ATGCTCAGCA CACCCAGCGG
 1451 CTGCTGCGCA TCCAGGACAT ACACCCCTTT GCTACGCCCC TCATGCAGGA
 1501 GTTGTTGCGC ATCACAGGTA GCTGAGCGGC TGCCCTTGGG TGACACCTCC
 1551 GAGAGGCAGC CAGACCCAGA GCCCTCTGAG CCGCCACTCC CGGGCCAAGA
 1601 CAGATGGACA CTGCCAAGAG CCGACAATGC CCTGCTGGCC TGTCTCCCTA
 1651 GGAATTCCT GCTATGACAG CTGGCTAGCA TTCCTCAGGA AGGACATGGG
 1701 TGCCCCCAC CCCCAGTTCA GTCTGTAGGG AGTGAAGCCA CAGATTCTTA
 1751 CGTGGAGAGT GCACTGACCT GTAGGTCAGG ACCATCAGAG AGGCAAGGTT
 1801 GCCCTTTCCT TTTAAAAGGC CCTGTGGTCT GGGGAGAAAT CCCTCAGATC
 1851 CCACTAAAGT GTCAAGGTGT GGAAGGGACC AAGCGACCAA GGATAGGCCA
 1901 TCTGGGGTCT ATGCCACAT ACCACGTTT GTTCGCTTCC TGAGTCTTTT
 1951 CATTGCTACC TCTAATAGTC CTGTCTCCCA CTTCCCACTC GTTCCCCTCC
 2001 TCTTCCGAGC TGCTTTGTGG GCTCCAGGCC TGTACTCATC GGCAGGTGCA
 2051 TGAGTATCTG TGGGAGTCCT CTAGAGAGAT GAGAAGCCAG GAGGCCTGCA
 2101 CCAAATGTCA GAAGCTTGGC ATGACCTCAT TCCGGCCACA TCATTCTGTG
 2151 TCTCTGCATC CATTTGAACA CATTATTAAG CACCGATAAT AGGTAGCCTG

FIG.4B

TCCATCCTAATACGACTCACTATAGGGCTCGAGCGGCCCGCCGGGCAGGTCTTTTGGCCT 60
GCTGGGTTAGTGCTGGCAGCCCCCTGAGGCCAAGGACAGCAGCATGACAGTCACCAGGAC 120
M T V T R T
TCACCACTTCAAGGAGGGGTCCCTCAGAGCACCTGCCATACCCTGCACAGTGCTGCGGC 180
H H F K E G S L R A P A I P L H S A A A
TGAGTTGGCTTCAAACCATCCAAGAGGCCAGAAGCAAACCTGGAGGTGAGACCCAAAGA 240
E L A S N H P R G P E A N L E V R P K E
AAGCTGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGTCTGTTCTTGAAAGCC 300
S W N H A D F V H C E D T E S V P G K P
CAGTGTCAACGCAGATGAGGAAGTCGGAGGTCCCCAAATCTGCCGTGTATGTGGGGACAA 360
S V N A D E E V G G P Q I C R V C G D K
GGCCACTGGCTATCACTTCAATGTCATGACATGTGAAGGATGCAAGGGCTTTTTTCAGGAG 420
A T G Y H F N V M T C E G C K G F F R R
GGCCATGAAACGCAACGCCCGGCTGAGGTGCCCTTCCGGAAGGGCGCCTGCGAGATCAC 480
A M K R N A R L R C P F R K G A C E I T
CCGGAAGACCCGGCGACAGTGCCAGGCCTGCCGCCTGCGCAAGTGCCTGGAGAGCGGCAT 540
R K T R R O C O A C R L R K C L E S G M
GAAGAAGGAGATGATCATGTCCGACGAGGCCGTGGAGGAGAGGGCGGCCCTTGATCAAGCG 600
K K E M I M S D E A V E E R R A L I K R
GAAGAAAAGTGAACGGACAGGGACTCAGCCACTGGGAGTGCAGGGGGCTGACAGAGGAGCA 660
K K S E R T G T Q P L G V Q G L T E E Q
GCGGATGATGATCAGGGAGCTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTCTC 720
R M M I R E L M D A Q M K T F D T T F S
CCATTTCAAGAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCTGCGAGTTGCCAGAGTC 780
H F K N F R L P G V L S S G C E L P E S
TCTGCAGGCCCCATCGAGGGAAGAAGCTGCCAAGTGGAGCCAGGTCCGGAAGATCTGTG 840
L Q A P S R E E A A K W S Q V R K D L C
CTCTTTGAAGGTCTCTCTGCAGCTGCGGGGGGAGGATGGCAGTGTCTGGAACACAAACC 900
S L K V S L Q L R G E D G S V W N Y K P
CCCAGCCGACAGTGGCGGGAAAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTC 960
P A D S G G K E I F S L L P H M A D M S
AACCTACATGTTCAAAGGCATCATCAGCTTTGCCAAAGTCATCTCTACTTCAGGGACTT 1020
T Y M F K G I I S F A K V I S Y F R D L

FIG.5A

GCCCATCGAGGACCAGATCTCCCTGCTGAAGGGGGCCGCTTTGAGCTGTGTCAACTGAG 1080
 P I E D Q I S L L K G A A F E L C Q L R
 ATCAACACAGTGTTCAACGCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCCTACTG 1140
 F N T V F N A E T G T W E C G R L S Y C
 CTTGGAAGACACTGCAGGTGGCTTCCAGCAACTTCTACTGGAGCCCATGCTGAAATTCCA 1200
 L E D T A G G F Q Q L L L E P M L K F H
 CTACATGCTGAAGAAGCTGCAGCTGCATGAGGAGGAGTATGTGCTGATGCAGGCCATCTC 1260
 Y M L K K L Q L H E E E Y V L M Q A I S
 CCTCTTCTCCCCAGACCGCCAGGTGTGCTGCAGCACC GCGTGGTGGACCAGCTGCAGGA 1320
 L F S P D R P G V L Q H R V V D Q L Q E
 GCAATTCGCCATTACTCTGAAGTCCTACATTGAATGCAATCGGCCCCAGCCTGCTCATAG 1380
 Q F A I T L K S Y I E C N R P Q P A H R
 GTTCTTGTTCTGAAGATCATGGCTATGCTCACCGAGCTCCGCAGCATCAATGCTCAGCA 1440
 F L F L K I M A M L T E L R S I N A Q H
 CACCCAGCGGCTGCTGCGCATCCAGGACATACACCCCTTTGCTACGCCCTCATGCAGGA 1500
 T Q R L L R I Q D I H P F A T P L M Q E
 GTTGTTGCGCATCACAGGTAGCTGAGCGGCTGCCCTTGGGTGACACCTCCGAGAGGCAGC 1560
 L F G I T G S (SEQ ID NO:18)
 CAGACCCAGAGCCCTCTGAGCCGCCACTCCCGGGCCAAGACAGATGGACACTGCCAAGAG 1620
 CCGACAATGCCCTGCTGGCCTGTCTCCCTAGGGAATTCTGCTATGACAGCTGGCTAGCA 1680
 TTCCTCAGGAAGGACATGGGTGCCCCCACC CCGAGTT CAGTCTGTAGGGAGTGAAGCCA 1740
 CAGATTCTTACGTGGAGAGTGCACTGACCTGTAGGTCAGGACCATCAGAGAGGCAAGGTT 1800
 GCCCTTTCCTTTTAAAAGGCCCTGTGGTCTGGGGAGAAATCCCTCAGATCCCACTAAAAGT 1860
 GTCAAGGTGTGGAAGGGACCAAGCGACCAAGGATAGGCCATCTGGGGTCTATGCCACAT 1920
 ACCCACGTTTGTTCGCTTCTGAGTCTTTTCATTGCTACCTCTAATAGTCTGTCTCCCA 1980
 CTTCCCACTCGTTCCCTCCTCTTCCGAGCTGCTTTGTGGGCTCCAGGCCTGTACTCATC 2040
 GGCAGGTGCATGAGTATCTGTGGGAGTCCTCTAGAGAGATGAGAAGCCAGGAGGCCTGCA 2100
 CCAAATGTCAGAAGCTTGGCATGACCTCATTCCGCCACATCATTCTGTGTCTCTGCATC 2160
 CATTTGAACACATTATTAAGCACCGATAATAGGTAGCCTGCTGTGGGGTATACAGCATTG 2220

FIG.5B

ACTCAGATATAGATCCTGAGCTCACAGAGTTTATAGTTAAAAAACAAACAGAAACACAA 2280
 ACAATTTGGATCAAAAGGAGAAATGATAAGTGACAAAAGCAGCACAAGGAATTTCCCTGT 2340
 GTGGATGCTGAGCTGTGATGGCGGGCACTGGGTACCCAAGTGAAGGTTCCCGAGGACATG 2400
 AGTCTGTAGGAGCAAGGGCACAACTGCAGCTGTGAGTGCGTGTGTGTGATTTGGTGTAG 2460
 GTAGGTCTGTTTGCCACTTGATGGGGCCTGGGTTTGTTCTGGGGCTGGAATGCTGGGTA 2520
 TGCTCTGTGACAAGGCTACGCTGACAATCAGTTAAACACACCGGAGAAGAACCATTTACA 2580
 TGCACCTTATATTTCTGTGTACACATCTATTCTCAAAGCTAAAGGGTATGAAAGTGCCTG 2640
 CCTTGTTTATAGCCACTTGTGAGTAAAAATTTTTTGCATTTTCACAAATTATACTTTAT 2700
 ATAAGGCATTCCACACCTAAGAACTAGTTTTGGGAAATGTAGCCCTGGGTTTAATGTCAA 2760
 ATCAAGGCAAAAGGAATTAATAATGTACTTTTGGCTAGAGGGGTAACTTTTTTGGCCT 2820
 TTTTCTGGGGAAAATAATGTGGGGGTGTGG (SEQ ID NO:17) 2850

FIG.5C

1 MTVTRTHHEK EGSLRAPAIP LHSAAAELAS NHPRGPEANL EVRPKESWNH
51 ADFVHCEDTE SVPGKPSVNA DEEVGGPQIC RVC GDKATGY HFN VMTCEGC
101 KGFFRRAMKR NARLRCPFRK GACEITRKTR RQCQACRLRK CLESGMKKEM
151 IMSDEAVEER RALIKRKKSE RTGTQPLGVQ GLTEEQRMMI RELMDAQMKT
201 FDTTFSHFKN FRLPGVLSSG CELPESLQAP SREEAAKWSQ VRKDLC SLKV
251 SLQLRGEDGS VWNYPKPPADS GGKEIFSLLP HMADMSTYMF KGIISFAKVI
301 SYFRDLPIED QISLLKGAAF ELCQLRFNTV FNAETGTWEC GRLSYCLEDT
351 AGGFQQLLLE PMLKFHYMLK KLQLHEEEYV LMQAISLFSP DRPGVLQHRV
901 VDQLQEQFAI TLKSYIECNR PQPAHRFLFL KIMAMLTCLR SINAQHTQRL
451 LRIQDIHPFA TPLMQELFGI TGS (SEQ ID NO:18)

FIG.6